

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s)	Ebright et al.	Examiner:	Unassigned
Serial No.:	10/665,227	Group Art Unit:	Unassigned
Confirmation No:	Unassigned	Docket:	744-37 PCT/US/CIP I
Filed:	September 17, 2003	Dated:	December 1, 2003
For:	BIS-TRANSITION-METAL- CHELATE PROBES		

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

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On: December 1, 2003*

Signed: Amanda F. Shaw  
Amanda F. Shaw

**INFORMATION DISCLOSURE STATEMENT**

Sir:

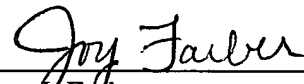
In order to fulfill the requirements of candor and good faith set forth in 37 C.F.R. §1.56, Applicants submit herewith the following Information Disclosure Statement in accordance with the provisions of 37 C.F.R. §1.97 and §1.98.

Attached hereto is Form PTO-1449 listing references which may be considered material in evaluating the patentability of the claims of the above-identified application. Copies of these references are being submitted herewith.

As this Information Disclosure Statement is being filed before the issuance of a first Office Action, no fee is deemed necessary. If, however, a fee is necessary, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 08-2461.

If the Examiner has any questions or comments relating to the present application, he or she is respectfully invited to contact Applicants' attorney at the telephone number set forth below.

Respectfully submitted,

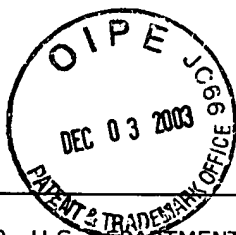


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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2-32) PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. 744-37 PCT/US/CIP I	SERIAL NO. 10/665,227
	APPLICANT Ebright et al.	CONFIRMATION NO. Unassigned
	FILING DATE September 17, 2003	GROUP Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	B1	EP 1215501 A1	06/19/02	EPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	C1	Crowe et al., "6xHis-Ni-NTA Chromatography as a Superior Technique in Recombinant Protein Expression/Purification", <i>Methods in Molecular Biology</i> , Vol. 31: <i>Protocols for Gene Analysis</i> , A. J. Harwood, ed., pp. 371-387 (1994).
	C2	Geoghegan et al., "Site-Directed Conjugation of Nonpeptide Groups to Peptides and Proteins via Periodate Oxidation of a 2-Amino Alcohol. Application to Modification at N-Terminal Serine", <i>Bioconjugate Chem.</i> , Vol. 3, pp. 138-146 (1992).
	C3	Gershon et al., "Stable chelating linkage for reversible immobilization of oligohistidine tagged proteins in the BIAcore surface plasmon resonance detector", <i>Journal of Immunological Methods</i> , Vol. 183, pp. 65-76 (1995).
	C4	Griffin et al., "Specific Covalent Labeling of Recombinant Protein Molecules Inside Live Cells", <i>Science</i> , Vol. 281, pp. 269-272 (1998).
	C5	Hochuli et al., "Genetic Approach to Facilitate Purification of Recombinant Proteins with a Novel Metal Chelate Adsorbent", <i>Bio/Technology</i> , pp. 1321-1325 (November 1988).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Rev. 2-32) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

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10/665,227APPLICANT  
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	C6		Hochuli et al., "New Metal Chelate Adsorbent Selective for Proteins and Peptides Containing Neighbouring Histidine Residues", <i>Journal of Chromatography</i> , Vol. 411, pp. 177-184 (1987).
	C7		Jameson, David M. et al., "Fluorescence Anisotropy Applied to Biomolecular Interactions", <i>Methods in Enzymology</i> , Vol. 246, pp. 283-300 (1995).
	C8		Kienberger et al., "Recognition Force Spectroscopy Studies of the NTA-His6 Bond", <i>Single Mol. 1</i> , pp. 59-65 (2000).
	C9		Muir, Tom W., et al., "Expressed protein ligation: A general method for protein engineering", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 95, pp. 6705-6710 (1998).
	C10		Nieba et al., "BIAcore Analysis of Histidine-Tagged Proteins Using a Chelating NTA Sensor Chip", <i>Analytical Biochemistry</i> , Vol. 252, pp. 217-228 (1997).
	C11		O'Shannessy et al., "Detection and Quantitation of Hexa-Histidine-Tagged Recombinant Proteins on Western Blots and by a Surface Plasmon Resonance Biosensor Technique", <i>Analytical Biochemistry</i> , Vol. 229, pp. 119-124 (1995).
	C12		Sato, Haruya, et al., "Site-Specific Modification of Interleukin-2 by the Combined Use of Genetic Engineering Techniques and Transglutaminase", <i>Biochemistry</i> , Vol. 35, pp. 13072-13080 (1996).
	C13		Schmitt et al., "A Metal-Chelating Microscopy Tip as a New Toolbox for Single-Molecule Experiments by Atomic Force Microscopy", <i>Biophysical Journal</i> , Vol. 78, pp. 3275-3285 (2000).
	C14		Sulkowski, Eugene, "Purification of proteins by IMAC", <i>Trends in Biotechnology</i> , Vol. 3, No. 1 (1985).

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